Phillip Trudeau-Tavara

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A dedicated, quality-oriented programmer looking to improve his skills in large-scale software development and to apply his experience operating in performance-sensitive and systems environments, as well as agile user-focused environments. Good team player and public speaker with a result-oriented mindset to development.

Freelance

ToolGal Tool Manager

Requirements elicitation, software engineering, programming, design

Q4 2017-Q1 2019

Contract to develop an enterprise software application for the tool crib operators at George Brown College Performed requirements elicitation from stakeholders' user stories

Designed & implemented the full software stack from UI to database, delivering features promptly & fully functional Enterprise data entry and database management tool for POS-like tool lending

Fully-featured transaction system for loaning, returning, and timestamping tools

C++ GUI program using SDL; custom UI, input, rendering; manual & O(1) memory management

Skills

5 years' experience in C/C++

Languages: C++14, C99, C#, assembly (x64 + SIMD, 6502), Go, Java, Python

Frameworks: Win32 (COM, WinForms), OpenGL, SDL, LINQ, Unity, Source SDK, Web front/backend Apps: Visual Studio - Trello - Slack - After Effects - Vegas Pro - Flash - Photoshop - Illustrator

Theory: Numerical analysis, IEEE 754 engineering, circuit design, engine/systems programming, graph theory,

number theory, cryptography, linear algebra, DSP & audio code Education: BSc Computer Science, Ryerson University.....Sep 2016-Apr 2018 SATEC @ W.A. Porter Collegiate Institute......Sep 2012-Jun 2016

Software

Light After Dark

Programming, design

Q3 2017; Q3 2018

Worked in a 3-person team under a 2-day deadline
Established an expedited workflow with team members for integrating assets (textures/sounds)
Interactive Windows C++ application with physics, particles, lighting

No Survivors

Programming, design

Q1 2016; Q4 2018

Established team asset pipeline for 3D models and materials as well as 2D textures

Spaceflight simulator written in C# using Unity Engine

6 fully destructible spacecraft; mobility degrades as thrusters break

Correctly proportioned astronomical bodies and equations of orbital motion

2D Game Engine

Programming, software engineering

Q2 2015-Q2 2017

Interactive multi-platform application written in C++ Custom physics, entity, graphics, and particle systems Custom-implemented standard library and robust unit conversion code

Rocket Man

Art direction, art asset production

Q2 2015

Interactive application using Unity engine Established team asset workflow under 1-month deadline